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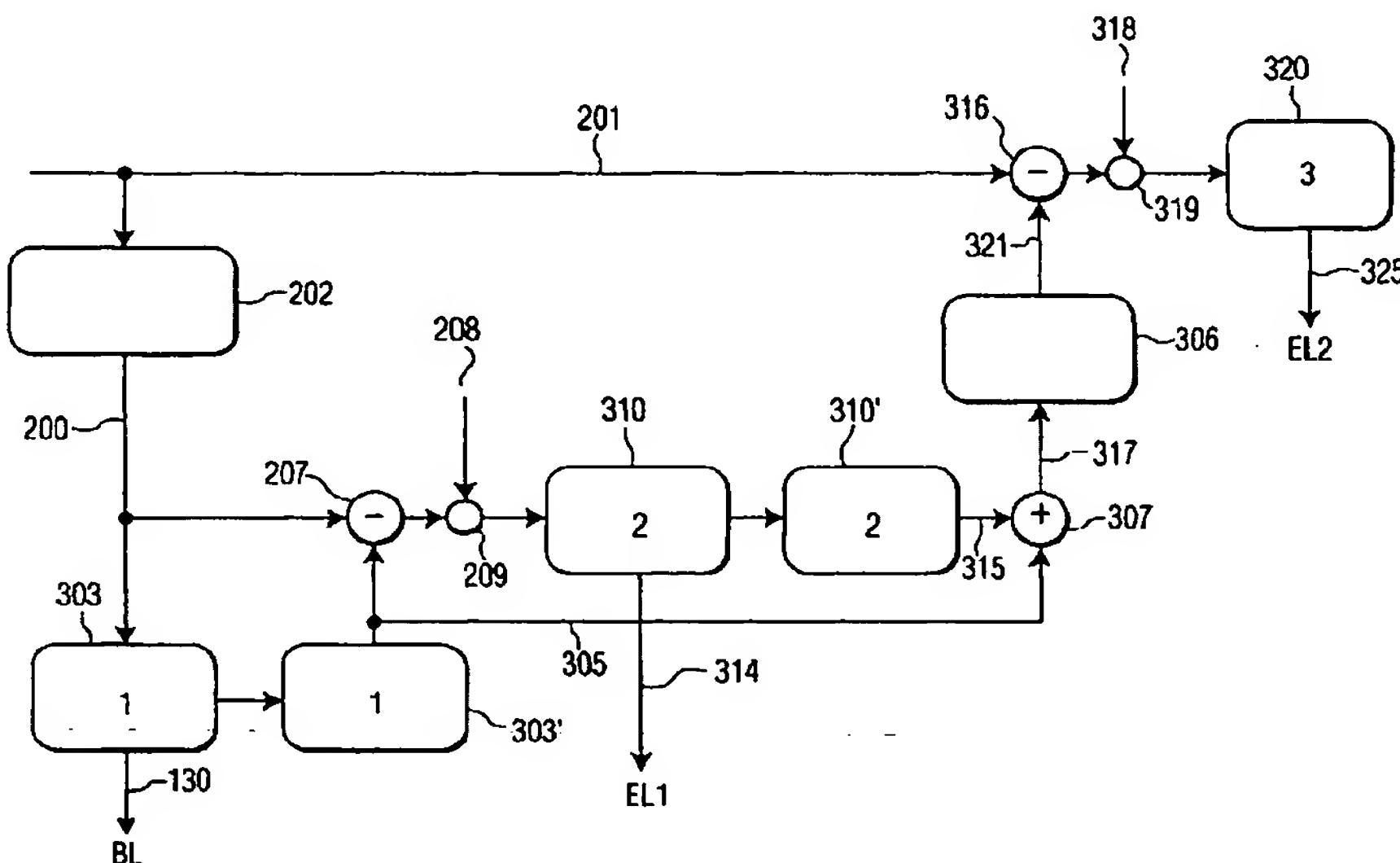
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### **Declarations under Rule 4.17:**

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(U)) for the following designations AE.

[Continued on next page]

**(54) Title: SPATIAL AND SNR SCALABLE VIDEO CODING**



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**(57) Abstract:** An SNR and spatial scalable video coder uses standards compatible encoding units (303, 310, 320) to produce a base layer encoded signal (130) and at least two enhanced layer encoded signals (314, 325). The base layer and at least the first enhanced layer are produced from a downscaled signal (200). At least one additional enhanced layer is produced from an upscaled signal (321). Advantageously, a single encoder/decoder pair can be used, in combination with feedback, switches, and offsets to produce all layers of the scalable coding. Modular design allows an arbitrary number of either spatial or SNR scalable encoded layers and error correction for all but the last layer. All encoders operate in the pixel domain. Decoders are also shown.



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